

ABSTRACT OF THE DISCLOSURE

A method is disclosed for obtaining a spreading code set for a code division multiple access (CDMA) communications system. The method includes (a) generating a $P' \times P'$ spreading code set where $P' = P / N$, where P is the spreading gain in chips/symbol and where N is an integer multiple of 2; and (b) replicating chips in each spreading code by N to produce a $P' \times P'$ spreading code set. The step of generating may include randomizing the spreading code set by performing at least one or row or column permutation. The $P' \times P'$ spreading code set is subsequently loaded into system hardware for operating the system hardware with a bandwidth that is less than the bandwidth that would be required to operate with the $P' \times P'$ Hadamard spreading code set. The CDMA system may be a synchronous, direct sequence code division multiple access communications system.